

USSN 10/014,267

Docket No. 52314US016

**Amendments to the Claims**

A detailed list of all claims under examination is shown below. Please amend claim 41 as shown below in marked form:

Claims 1 – 40 (Cancelled)

41. (Currently amended) A jet plasma apparatus for forming a coating on a substrate comprising:
- a cathode system for generating a plasma stream from a first source;
  - an anode system positioned relative to the cathode system such that the plasma stream is directed from the cathode system past the anode system and toward the substrate to be coated; and
  - an oil delivery system for providing vaporized organic material in another stream from a second source positioned relative to the cathode system such that the vaporized organic material and the plasma interact prior to, or upon contact with, the substrate.
42. (Previously presented) The jet plasma apparatus of claim 41 wherein the cathode system is a hollow cathode slot system comprising two electrode plates arranged parallel to each other.
43. (Original) The jet plasma apparatus of claim 42 wherein the hollow cathode slot system comprises a first compartment having therein a hollow cathode tube, a second compartment connected to the first compartment, and a third compartment connected to the second compartment having therein the two parallel plates.
44. (Previously presented) The jet plasma apparatus of claim 41 wherein the cathode system comprises a hollow cathode tube.

**BEST AVAILABLE COPY**

USSN 10/014,267Docket No. 52314US016

45. (Previously presented) The jet plasma apparatus of claim 41 wherein the cathode system comprises a point source.
46. (Previously presented) The jet plasma apparatus of claim 45 wherein the point source comprises:
- a cylinder having an outlet end;
  - a magnet surrounding the outlet end of the cylinder;
  - a tube having a leading edge, wherein the tube is positioned inside the cylinder and recessed such that the leading edge of the tube is in line with the center of the magnet.
47. (Original) The jet plasma apparatus of claim 41 further including a radio frequency bias electrode in close proximity to the substrate to be coated.
48. (Original) The jet plasma apparatus of claim 41 wherein the anode system is an adjustable anode system located substantially below the path the plasma travels when in operation.
49. (Original) The jet plasma apparatus of claim 41 wherein the oil delivery system comprises an atomizer for forming droplets of the organic material prior to vaporization.
50. (Previously presented) A hollow cathode system comprising:
- a cylinder having an outlet end;
  - a magnet surrounding the outlet end of the cylinder; and
  - a tube having a leading edge, wherein the tube is positioned inside the cylinder and recessed such that the leading edge of the tube is in line with the center of the magnet.

**BEST AVAILABLE COPY**